



I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **11/11/19** thru **11/24/19** conduct or supervise the taking of a **MWD Survey** from a depth of **173'** to a depth of **15,592'**; that the data is true, correct, complete and within the limitations of the tool as set forth by **Wellbenders Directional Services**; that I am authorized and qualified to make this report; that this survey was conducted at the request of **Devon Energy** for the **Flagler 8 Fed Com #32H** API No. **30-025-44986** in **Lea County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by **Wellbenders Directional Services**.

Larry Wright

HOBBS OCD

FEB 27 2020

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Devon Energy

Lea Co., NM (Nad83 - East Zone)

Flagler 8 Fed

#32H

OH

Design: OH

End Of Well Report

26 November, 2019



Wellbenders End Of Well Report

Company: Devon Energy
Project: Lea Co., NM (Nad83 - East Zone)
Site: Flagler 8 Fed
Well: #32H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #32H
TVD Reference: RKB=30' @ 3477.20usft (Cactus 108)
MD Reference: RKB=30' @ 3477.20usft (Cactus 108)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WBDS_SQL_2

Project Lea Co., NM (Nad83 - East Zone)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Flagler 8 Fed

Site Position:		Northing:	414,851.30 usft	Latitude:	32.138349
From:	Lat/Long	Easting:	769,983.95 usft	Longitude:	-103.594633
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.393 °

Well #32H

Well Position	+N/-S	0.00 usft	Northing:	415,051.28 usft	Latitude:	32.138899
	+E/-W	0.00 usft	Easting:	769,982.60 usft	Longitude:	-103.594633
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,447.20 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/13/2019	6.696	59.949	47,637.83599599

Design OH

Audit Notes:

Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	359.62	

Survey Program Date 11/26/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
173.00	15,592.00	Survey #1 (OH)	MWD+IGRF	OWSG MWD + IGRF or WMM



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0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
173.00	1.05	244.75	172.99	-0.68	-1.43	-0.67	173.00	244.75	0.61
266.00	1.05	258.20	265.97	-1.21	-3.04	-1.19	93.00	251.47	0.26
449.00	1.23	291.68	448.94	-0.83	-6.51	-0.79	183.00	276.30	0.37
633.00	1.58	308.21	632.89	1.47	-10.33	1.54	184.00	300.98	0.29
818.00	1.45	317.35	817.82	4.77	-13.92	4.86	185.00	312.58	0.15
1,003.00	1.23	301.53	1,002.77	7.53	-17.20	7.64	185.00	310.09	0.23
1,083.00	1.23	306.45	1,082.75	8.49	-18.62	8.61	80.00	303.99	0.13
1,252.00	2.33	272.96	1,251.67	9.74	-23.51	9.90	169.00	284.40	0.87
1,346.00	4.04	267.76	1,345.52	9.71	-28.73	9.90	94.00	269.67	1.84
1,441.00	5.10	262.77	1,440.22	9.05	-36.26	9.29	95.00	264.98	1.19
1,535.00	6.42	264.97	1,533.74	8.06	-45.65	8.37	94.00	264.00	1.42
1,630.00	7.56	268.39	1,628.04	7.42	-57.18	7.80	95.00	266.82	1.28
1,724.00	8.44	262.08	1,721.12	6.30	-70.20	6.76	94.00	265.05	1.32
1,819.00	9.23	257.58	1,815.00	3.69	-84.54	4.25	95.00	259.72	1.10
1,913.00	8.53	249.58	1,907.87	-0.36	-98.44	0.29	94.00	253.74	1.51
2,007.00	8.92	245.10	2,000.79	-5.86	-111.58	-5.12	94.00	247.29	0.83
2,101.00	8.26	251.08	2,093.73	-11.12	-124.58	-10.29	94.00	247.98	1.18
2,196.00	8.79	252.31	2,187.68	-15.54	-137.95	-14.62	95.00	251.71	0.59
2,290.00	7.96	252.66	2,280.68	-19.66	-151.01	-18.66	94.00	252.48	0.88
2,385.00	7.47	253.01	2,374.82	-23.42	-163.19	-22.34	95.00	252.83	0.52
2,480.00	6.64	245.98	2,469.10	-27.46	-174.12	-26.31	95.00	249.70	1.26
2,574.00	6.86	243.43	2,562.45	-32.19	-184.10	-30.97	94.00	244.68	0.40
2,669.00	7.21	245.72	2,656.73	-37.18	-194.61	-35.89	95.00	244.60	0.47
2,764.00	8.04	248.62	2,750.89	-42.05	-206.23	-40.68	95.00	247.25	0.96
2,858.00	6.86	244.93	2,844.10	-46.83	-217.44	-45.38	94.00	246.92	1.35
2,953.00	6.33	248.35	2,938.47	-51.16	-227.44	-49.65	95.00	246.57	0.69



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Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
3,047.00	6.29	248.53	3,031.90	-54.96	-237.05	-53.39	94.00	248.44	0.05
3,142.00	6.46	253.89	3,126.32	-58.35	-247.03	-56.71	95.00	251.25	0.65
3,237.00	6.29	254.07	3,220.73	-61.26	-257.17	-59.55	95.00	253.98	0.18
3,332.00	5.98	256.88	3,315.18	-63.81	-266.99	-62.04	95.00	255.44	0.45
3,426.00	7.60	255.85	3,408.52	-66.46	-277.78	-64.62	94.00	256.19	1.73
3,521.00	8.53	253.19	3,502.58	-70.06	-290.61	-68.13	95.00	254.35	1.04
3,615.00	10.07	254.77	3,595.34	-74.23	-305.22	-72.21	94.00	254.04	1.66
3,710.00	9.80	250.90	3,688.92	-79.06	-320.87	-76.93	95.00	252.86	0.76
3,804.00	7.96	248.88	3,781.79	-84.02	-334.50	-81.80	94.00	249.99	1.99
3,898.00	6.81	251.87	3,875.01	-88.10	-345.87	-85.81	94.00	250.26	1.29
3,993.00	6.95	256.18	3,969.32	-91.23	-356.81	-88.86	95.00	254.05	0.56
4,087.00	6.77	258.37	4,062.65	-93.70	-367.76	-91.26	94.00	257.26	0.34
4,182.00	6.55	259.87	4,157.01	-95.78	-378.57	-93.27	95.00	259.11	0.30
4,276.00	6.24	258.55	4,250.43	-97.74	-388.86	-95.16	94.00	259.23	0.36
4,371.00	6.86	249.41	4,344.81	-100.76	-399.23	-98.11	95.00	253.76	1.27
4,465.00	7.78	243.96	4,438.04	-105.53	-410.20	-102.81	94.00	246.51	1.23
4,560.00	8.00	243.78	4,532.14	-111.27	-421.91	-108.47	95.00	243.87	0.23
4,655.00	7.47	237.98	4,626.28	-117.47	-433.08	-114.59	95.00	240.98	0.99
4,749.00	7.69	232.09	4,719.46	-124.57	-443.22	-121.63	94.00	234.99	0.86
4,844.00	9.01	238.69	4,813.45	-132.34	-454.59	-129.33	95.00	235.65	1.71
4,939.00	10.15	242.29	4,907.13	-140.10	-468.36	-136.99	95.00	240.60	1.36
4,986.00	10.68	241.94	4,953.35	-144.08	-475.87	-140.92	47.00	242.11	1.14
5,105.00	10.64	242.90	5,070.30	-154.27	-495.38	-150.98	118.00	242.42	0.15
5,200.00	10.55	242.20	5,163.68	-162.32	-510.88	-158.93	95.00	242.55	0.17
5,294.00	10.24	249.08	5,256.14	-169.32	-526.29	-165.83	94.00	245.58	1.36
5,388.00	10.68	253.01	5,348.58	-174.85	-542.43	-171.25	94.00	251.08	0.89
5,483.00	9.23	256.26	5,442.15	-179.23	-558.25	-175.53	95.00	254.52	1.64



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5,577.00	8.35	259.16	5,535.04	-182.31	-572.28	-178.51	94.00	257.64	1.05
5,672.00	7.43	270.06	5,629.15	-183.60	-585.19	-179.71	95.00	264.29	1.84
5,766.00	7.25	273.84	5,722.38	-183.19	-597.19	-179.23	94.00	271.93	0.55
5,861.00	6.77	277.36	5,816.67	-182.08	-608.72	-178.03	95.00	275.54	0.68
5,955.00	5.45	278.15	5,910.13	-180.73	-618.64	-176.63	94.00	277.71	1.41
6,050.00	4.57	280.79	6,004.77	-179.39	-626.82	-175.22	95.00	279.35	0.96
6,144.00	3.74	281.89	6,098.52	-179.12	-633.54	-174.91	94.00	272.29	1.69
6,238.00	3.56	257.14	6,192.33	-180.20	-639.42	-175.95	94.00	259.57	0.37
6,333.00	2.95	239.65	6,287.18	-182.09	-644.40	-177.81	95.00	249.22	1.22
6,427.00	2.81	233.85	6,381.06	-184.67	-648.35	-180.37	94.00	236.82	0.34
6,522.00	2.86	232.89	6,475.95	-187.48	-652.12	-183.15	95.00	233.37	0.07
6,617.00	1.71	210.74	6,570.87	-190.12	-654.74	-185.78	95.00	224.63	1.50
6,711.00	1.05	191.40	6,664.84	-192.17	-655.62	-187.82	94.00	203.40	0.85
6,805.00	1.23	196.15	6,758.83	-193.99	-656.07	-189.63	94.00	193.96	0.22
6,900.00	1.14	203.00	6,853.81	-195.84	-656.73	-191.48	95.00	199.44	0.18
6,994.00	1.05	204.23	6,947.79	-197.48	-657.45	-193.12	94.00	203.59	0.10
7,089.00	1.36	204.41	7,042.77	-199.30	-658.27	-194.93	95.00	204.33	0.33
7,184.00	1.45	199.75	7,137.74	-201.46	-659.14	-197.08	95.00	202.01	0.15
7,279.00	1.41	204.87	7,232.71	-203.65	-660.03	-199.27	95.00	202.18	0.14
7,373.00	1.45	206.43	7,326.68	-205.77	-661.05	-201.38	94.00	205.56	0.06
7,468.00	1.45	204.23	7,421.65	-207.94	-662.07	-203.55	95.00	205.33	0.06
7,563.00	1.76	213.90	7,516.61	-210.25	-663.38	-205.84	95.00	209.53	0.43
7,658.00	0.66	199.31	7,611.59	-211.98	-664.38	-207.57	95.00	209.93	1.19
7,752.00	0.22	35.31	7,705.59	-212.34	-664.45	-207.93	94.00	191.61	0.93
7,847.00	0.35	336.51	7,800.59	-211.93	-664.46	-207.51	95.00	358.59	0.32
7,941.00	0.18	81.98	7,894.59	-211.64	-664.43	-207.23	94.00	6.39	0.46
8,036.00	0.44	215.31	7,989.59	-211.92	-664.49	-207.51	95.00	192.83	0.61



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8,129.00	0.40	266.81	8,082.58	-212.23	-665.02	-207.81	93.00	239.74	0.39
8,224.00	0.22	260.83	8,177.58	-212.28	-665.53	-207.86	95.00	264.69	0.19
8,319.00	0.53	265.05	8,272.58	-212.34	-666.15	-207.92	95.00	263.81	0.33
8,413.00	0.62	239.83	8,366.57	-212.64	-667.02	-208.21	94.00	251.44	0.28
8,508.00	0.57	226.12	8,461.57	-213.22	-667.81	-208.79	95.00	233.26	0.16
8,603.00	0.84	223.22	8,556.56	-214.06	-668.63	-209.62	95.00	224.39	0.29
8,697.00	0.88	216.27	8,650.55	-215.14	-669.53	-210.70	94.00	219.66	0.12
8,792.00	1.05	207.05	8,745.54	-216.50	-670.35	-212.05	95.00	211.25	0.24
8,981.00	1.10	228.14	8,934.51	-219.26	-672.49	-214.79	189.00	217.84	0.21
9,076.00	1.05	217.94	9,029.49	-220.55	-673.71	-216.08	95.00	223.16	0.21
9,170.00	0.75	253.28	9,123.48	-221.41	-674.83	-216.93	94.00	232.57	0.66
9,265.00	0.62	282.98	9,218.47	-221.47	-675.92	-216.98	95.00	266.69	0.39
9,360.00	0.88	283.60	9,313.46	-221.18	-677.13	-216.69	95.00	283.34	0.27
9,455.00	0.92	258.90	9,408.45	-221.16	-678.59	-216.65	95.00	270.97	0.41
9,549.00	2.81	262.06	9,502.40	-221.62	-681.61	-217.10	94.00	261.28	2.01
9,646.00	2.95	269.10	9,599.28	-221.99	-686.46	-217.43	97.00	265.67	0.39
9,738.00	2.29	289.05	9,691.18	-221.43	-690.57	-216.84	92.00	277.81	1.21
9,832.00	2.55	279.55	9,785.10	-220.47	-694.40	-215.86	94.00	284.04	0.51
9,929.00	0.22	255.56	9,882.06	-220.16	-696.71	-215.53	97.00	277.69	2.42
10,023.00	0.84	204.32	9,976.06	-220.83	-697.17	-216.20	94.00	214.27	0.77
10,118.00	1.54	201.24	10,071.04	-222.65	-697.92	-218.02	95.00	202.33	0.74
10,212.00	1.36	199.75	10,165.01	-224.88	-698.76	-220.24	94.00	200.54	0.20
KOP @ 10212.00' MD 169.66' FSL/1839.66' FWL									
10,307.00	6.64	2.70	10,259.83	-220.45	-698.88	-215.81	95.00	358.42	8.37
10,401.00	17.32	359.36	10,351.65	-200.97	-698.78	-196.33	94.00	0.29	11.38
10,496.00	26.46	351.63	10,439.72	-165.81	-702.02	-161.15	95.00	354.72	10.07
10,591.00	34.20	2.70	10,521.72	-118.09	-703.85	-113.42	95.00	357.81	10.02



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10,686.00	45.89	4.19	10,594.32	-57.20	-700.09	-52.55	95.00	3.54	12.35
10,781.00	57.85	2.52	10,652.88	17.27	-695.81	21.88	95.00	3.29	12.66
10,799.59	59.99	1.48	10,662.47	33.18	-695.28	37.79	18.59	1.99	12.46
FTP @ 10799.59' MD 417.33' FSL/1844.21' FWL									
10,876.00	68.84	357.60	10,695.45	102.01	-695.90	106.62	76.41	359.47	12.46
10,970.00	77.32	358.22	10,722.78	191.80	-699.17	196.43	94.00	357.92	9.04
11,065.00	85.67	358.74	10,736.82	285.63	-701.65	290.28	95.00	358.48	8.81
11,186.00	93.23	0.94	10,737.98	406.53	-701.99	411.18	121.00	359.84	6.51
11,281.00	91.60	2.08	10,733.98	501.41	-699.49	506.04	95.00	1.51	2.09
11,375.00	91.47	2.00	10,731.46	595.32	-696.14	599.92	94.00	2.04	0.16
11,470.00	90.55	1.12	10,729.79	690.27	-693.55	694.85	95.00	1.56	1.34
11,565.00	90.42	1.21	10,728.98	785.24	-691.62	789.81	95.00	1.17	0.17
11,659.00	90.07	1.12	10,728.58	879.22	-689.71	883.78	94.00	1.16	0.38
11,754.00	89.45	0.94	10,728.98	974.21	-688.00	978.75	95.00	1.03	0.68
11,849.00	89.76	0.50	10,729.63	1,069.20	-686.81	1,073.73	95.00	0.72	0.57
11,944.00	90.95	0.68	10,729.05	1,164.19	-685.83	1,168.71	95.00	0.59	1.27
12,039.00	92.09	1.12	10,726.53	1,259.14	-684.34	1,263.65	95.00	0.90	1.29
12,134.00	90.33	0.24	10,724.52	1,354.11	-683.21	1,358.61	95.00	0.68	2.07
12,229.00	88.84	359.89	10,725.21	1,449.10	-683.11	1,453.60	95.00	0.07	1.61
12,323.00	88.04	359.62	10,727.77	1,543.07	-683.51	1,547.56	94.00	359.76	0.90
12,418.00	88.40	359.18	10,730.72	1,638.01	-684.50	1,642.52	95.00	359.40	0.60
12,513.00	88.70	359.45	10,733.12	1,732.98	-685.64	1,737.49	95.00	359.32	0.42
12,608.00	89.01	0.06	10,735.02	1,827.96	-686.04	1,832.47	95.00	359.76	0.72
12,702.00	89.14	0.59	10,736.54	1,921.94	-685.51	1,926.45	94.00	0.33	0.58
12,797.00	88.79	359.71	10,738.25	2,016.93	-685.26	2,021.43	95.00	0.15	1.00
12,891.00	88.31	358.48	10,740.63	2,110.88	-686.75	2,115.39	94.00	359.10	1.40
12,986.00	87.56	358.30	10,744.06	2,205.78	-689.41	2,210.31	95.00	358.39	0.81



Wellbenders End Of Well Report

Company: Devon Energy
Project: Lea Co., NM (Nad83 - East Zone)
Site: Flagler 8 Fed
Well: #32H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #32H
TVD Reference: RKB=30' @ 3477.20usft (Cactus 108)
MD Reference: RKB=30' @ 3477.20usft (Cactus 108)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WBDS_SQL_2

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
13,081.00	88.00	359.01	10,747.74	2,300.68	-691.64	2,305.22	95.00	358.66	0.88
13,176.00	88.57	359.18	10,750.58	2,395.63	-693.14	2,400.17	95.00	359.10	0.63
13,271.00	88.84	359.18	10,752.73	2,490.59	-694.50	2,495.15	95.00	359.18	0.28
13,365.00	89.27	359.18	10,754.28	2,584.57	-695.85	2,589.13	94.00	359.18	0.46
13,460.00	89.32	359.18	10,755.44	2,679.55	-697.21	2,684.12	95.00	359.18	0.05
13,555.00	89.45	359.54	10,756.46	2,774.54	-698.27	2,779.11	95.00	359.36	0.40
13,650.00	90.15	358.83	10,756.80	2,869.53	-699.62	2,874.11	95.00	359.18	1.05
13,744.00	90.64	358.57	10,756.15	2,963.50	-701.75	2,968.09	94.00	358.70	0.59
13,839.00	90.86	357.87	10,754.90	3,058.45	-704.70	3,063.06	95.00	358.22	0.77
13,934.00	90.99	356.55	10,753.37	3,153.32	-709.32	3,157.96	95.00	357.21	1.40
14,032.00	91.08	354.44	10,751.60	3,251.00	-717.02	3,255.68	98.00	355.50	2.15
14,126.00	91.38	353.73	10,749.58	3,344.48	-726.70	3,349.22	94.00	354.09	0.82
14,221.00	91.91	353.91	10,746.86	3,438.88	-736.93	3,443.70	95.00	353.82	0.59
14,316.00	90.90	352.68	10,744.53	3,533.20	-748.02	3,538.09	95.00	353.29	1.67
14,410.00	91.82	352.68	10,742.30	3,626.41	-759.99	3,631.37	94.00	352.68	0.98
14,504.00	92.18	352.77	10,739.01	3,719.60	-771.89	3,724.63	94.00	352.72	0.39
14,599.00	92.44	352.77	10,735.19	3,813.76	-783.83	3,818.88	95.00	352.77	0.27
14,693.00	91.38	354.97	10,732.05	3,907.17	-793.86	3,912.35	94.00	353.87	2.60
14,787.00	90.86	357.95	10,730.21	4,000.96	-799.66	4,006.18	94.00	356.46	3.22
14,882.00	89.67	359.89	10,729.78	4,095.94	-801.45	4,101.16	95.00	358.92	2.40
14,977.00	90.11	359.97	10,729.96	4,190.94	-801.57	4,196.16	95.00	359.93	0.47
15,072.00	90.77	359.89	10,729.23	4,285.93	-801.69	4,291.15	95.00	359.93	0.70
15,166.00	91.52	0.06	10,727.35	4,379.91	-801.73	4,385.13	94.00	359.97	0.82
15,261.00	89.14	359.54	10,726.80	4,474.90	-802.06	4,480.12	95.00	359.80	2.56
15,355.00	89.58	359.71	10,727.85	4,568.89	-802.67	4,574.12	94.00	359.63	0.50
15,450.00	89.89	359.71	10,728.29	4,663.89	-803.16	4,669.12	95.00	359.71	0.33
15,533.00	90.20	359.80	10,728.23	4,746.89	-803.51	4,752.12	83.00	359.75	0.39



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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WBDS_SQL_2

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	CL (usft)	CL Azi (°)	DLeg (°/100ft)
15,580.38	90.20	359.80	10,728.06	4,794.27	-803.68	4,799.50	47.38	359.80	0.00
LTP @ 15580.38' MD 100.00' FNL/1768.10' FWL									
15,592.00	90.20	359.80	10,728.02	4,805.89	-803.72	4,811.12	11.62	359.80	0.00
BHL @ 15592.00' MD 88.52' FNL/1768.22' FWL									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,212.00	10,185.01	-224.88	-698.76	KOP @ 10212.00' MD 159.55' FSL/1839.56' FWL
10,799.59	10,662.47	33.18	-695.28	FTP @ 10799.59' MD 417.33' FSL/1844.21' FWL
15,580.38	10,728.06	4,794.27	-803.68	LTP @ 15580.38' MD 100.00' FNL/1768.10' FWL
15,592.00	10,728.02	4,805.89	-803.72	BHL @ 15592.00' MD 88.52' FNL/1768.22' FWL

Checked By: _____ Approved By: _____ Date: _____